English

User's Manual

2.4GHz Wireless Camera Series

Weather-proof & Day/Night

Model: 906D/906F

ZT-707

ZT-906T

ZT-708

Please read this manual carefully and thoroughly before any attempt to install and operate this product and retain it for your future reference.

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EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

INTRODUCTION

Thank you for purchasing this wireless camera kit. This product works at ISM-2.4GHz frequency band, which could be legally used worldwide without permission. We feel confident that you will be pleased with the quality and features of this product.
The camera features one CCD image sensor and a transmitting module to capture the image and transmit them wirelessly.
The receiver features a receiving module to receive and output AV signals.

Notice

Notice: This product may cause interferences with other wireless equipment that operates at 2.4GHz ISM band. Please turn off one of the equipments to eliminate the interference.
Product Assurance: This camera will emit electromagnetic wave, just like other wireless products. But its transmitting power is less than other wireless products such as mobile phones. The 2.4GHz wireless camera meets wireless frequency security standards and recommended indexes while working. These standards and indexes are certificated by academic organization and represent the cogitative research of the scientific workers who continuously explore and annotate the involved fields. So we believe that our products are safe for customers.

Approval Information

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed or used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and the receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation Changes and modification not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

CE

This product complies with standards including **L**ow **V**oltage **D**evice Directive 73/23/EEC; **EMC** Directive 89/336/EEC and **R&TTE** Directive 1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear **CE** mark.

Restrictions

1. DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for such purpose;
2. DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment. So this product should be placed at least 1 feet away from any heart pacemaker. Radio waves might potentially influence heart pacemaker and lead to respiratory disturbance;
3. DO NOT use this product for any illegal activities. We shall not be responsible for any consequences of illegal acts committed by the user.

Maintenance

1. Ensure the sufficient ventilation space is available;
2. Do not shake or strike the product;
3. Keep it dry and dustless and avoid exposing it to direct sunlight;
4. Do not place product near any magnetic objects;
5. Avoid putting the product in places where the constantly changed temperature or humidity occurs;
6. Keep product away from heat sources such as electric heater;
7. Do not use the camera near aggressive chemicals;
8. Do not use the camera in the places which are enclosed by metal. The surrounding metal like lifter, cabin, may shield the electromagnetic wave, and result in failure of signal reception;
9. Please obey the local government's environment protection policy;
10. Please turn off the power when left unused;
11. Do not disassemble or repair the camera or receiver; doing so might cause damages to the product.

PRODUCT

Package Contents

This package comes with the following items. Please check whether they are all included in the packaging box, if one or some is missing, contact the retailer for replacement.

① 2.4GHz Wireless Camera×1

② Bracket for Camera×1

③ 2.4GHz Wireless Receiver×1

④ Antenna ×2

⑤ Adapter for Camera×1

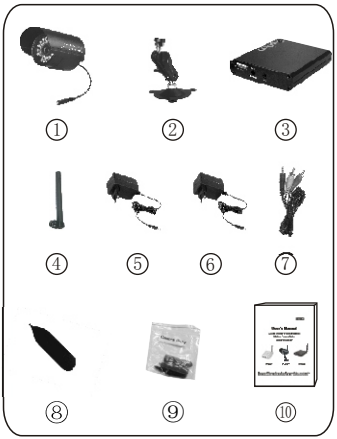
⑥ Adapter for Receiver ×1

⑦ AV Cable ×1

⑧ Channel Pick for Camera ×1

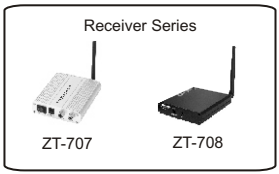
⑨ Mounting Hardware ×1

⑩ User's Manual ×1



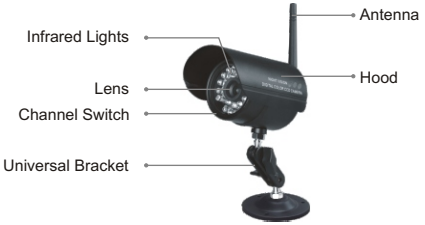
906D means ZT-906T + ZT-707
906F means ZT-906T + ZT-708

Note:
The pictures may vary from the actual objects.



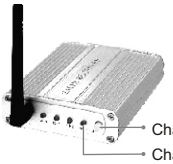
Feature Locations

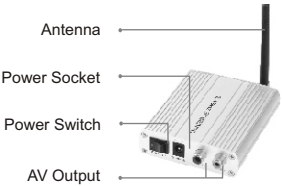
1. Camera



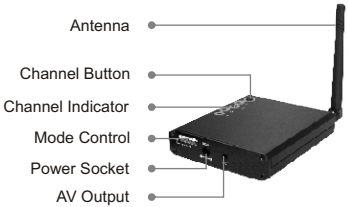
2. Receiver

ZT-707





ZT-708



Adapter

This product always conforms to the authenticated AC adapter. The adapter should be marked one of the following:

UL Mark
American power
supply authentication

SAA Mark
Australia power
supply authentication

CE Mark
European Union power
supply authentication

PSE Mark
Japan power
supply authentication

GS Mark
German power
supply authentication

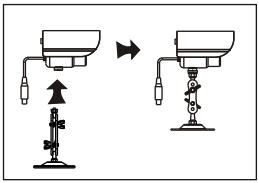
CCC Mark
China power
supply authentication

Note:
When using the power adapter, make sure the rating voltage on it is compatible with that of the device to avoid potential damages resulting from incorrect usage of power supply.

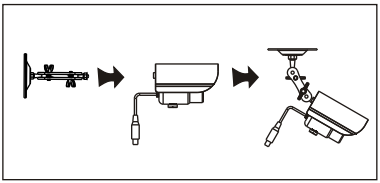
INSTALLATION & USAGE

Installation

1. Load the universal bracket to the camera as the following diagram.

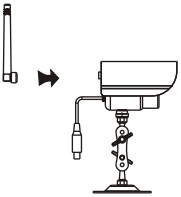


To the bottom of camera

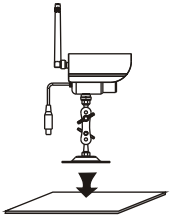


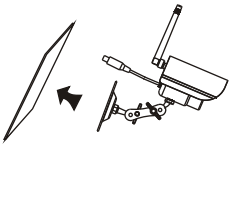
To the back of camera (optionally)

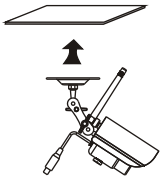
2. Connect the antenna to the camera.



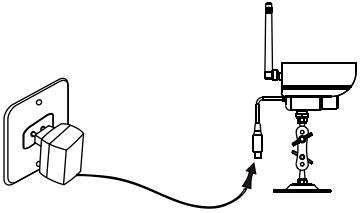
3. Locate the camera to a specific position and then adjust it to a suitable angle.



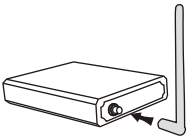




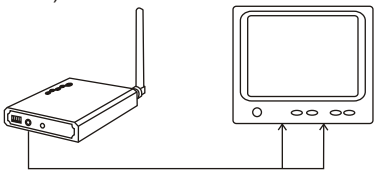
4. Connect the adapter (DC 12V 500mA) to the camera.



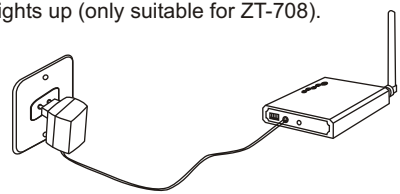
5. Connect the antenna to the receiver.



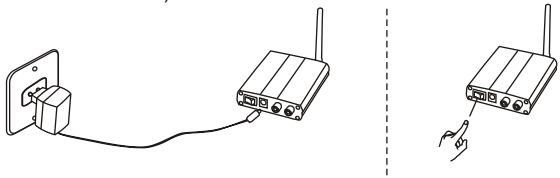
6. Connect the receiver to a monitor/TV with AV cable (yellow for video and red for audio).



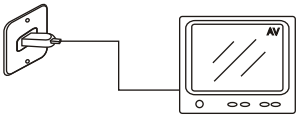
7. Connect the adapter (DC 8V 200mA) to the receiver and the channel indicator lights up (only suitable for ZT-708).



Connect the adapter (DC 12V 300mA) to the receiver and push the power switch to **ON** position and the channel indicator lights up(only suitable for ZT-707).



8. Power on the monitor/TV and select **AV** mode.



9. Set the channel of receiver same as that of camera by pressing the channel button continuously, and the pictures are displayed on the monitor/TV.

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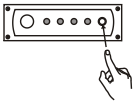

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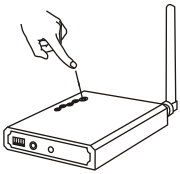
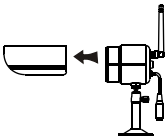


10. Adjust the brightness, contrast and color of the monitor/TV for the perfect effect.

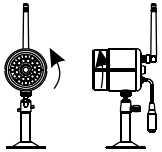
Camera Channel Setup

You could adjust the channel switch to set the channel of camera for multi-camera working or avoiding the interference. The steps are as the following.

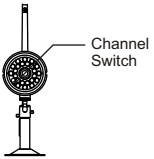
1. Pull out the hood as the shown direction.



2. Remove the front cover counter-clockwise.

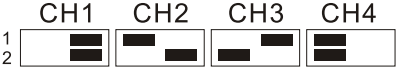


3. Find out the channel switch close to the IR lights and adjust the channel by channel pick.



4. Adjust the channel switch as the following diagram.

Channel Switch Setup Diagram

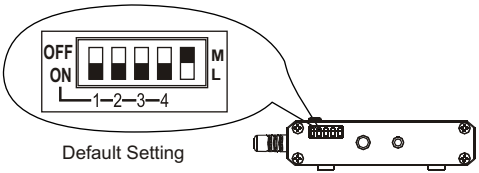


Channel Frequency

CH1=2,414MHz;
CH2=2,432MHz;
CH3=2,450MHz;
CH4=2,468MHz

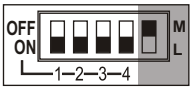
Receiver Mode Setup(Only suitable for ZT-708)

The receiver can support up to 4 cameras working at the same time. You are allowed to set the **Mode Control** as described below. The **Mode Control** has the precedence over other buttons.



Default Setting

Channel Set



1 – ON: CH1 Enable (Default)
OFF: CH1 Disable

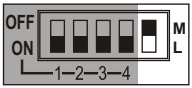
2 – ON: CH2 Enable (Default)
OFF: CH2 Disable

3 – ON: CH3 Enable (Default)
OFF: CH3 Disable

4 – ON: CH4 Enable (Default)
OFF: CH4 Disable

You can confirm which channel is set to receive signal from corresponding camera. With this function, you could set the unused channels to **OFF**, so that they will be skipped during the **Manual** mode or **Channel Scan** mode.

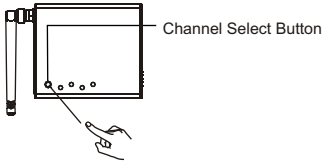
Channel-scan Set



M: Manual Mode (Default)

L: Channel-scan Mode

1. **Manual** mode: Slide **Mode Control** switch to **M** to enter **Manual** mode. In this mode, the receiver channel won't change until you press the **Channel Select Button**.



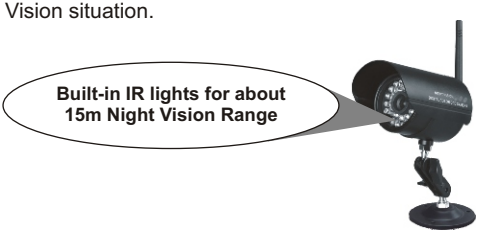
2. **Channel Scan** mode: Slide **Mode Control** switch to **L** to enter channel scan mode. In this mode, all the available channels will display one by one looping in turn per 5s. So you can watch the situations from up to 4 different cameras via one receiver.

Notes:

- *Press the **Channel Select Button** at the channel scan mode, the current channel will be looped to the next one immediately.*
- *Slide the **Mode Control** switch to **M** to exit the channel-scan mode.*

Night Vision

The built-in IR lights in camera provide 15m range night vision for 24hrs surveillance. The Infra-red lights will be automatically activated at night or in dark places. The picture will turn Black & White (monochrome) in Night Vision situation.



SPECIFICATIONS

	Items	906F	906D
CAMERA	Imaging Sensor	1/4-inch Sharp CCD	
	Total Pixels	512 x 582(PAL) 512 x 492(NTSC)	
	View Angle	39°	
	Minimum Illumination	0Lux	
	Transmission Frequency	ISM 2,400MHz~2,483MHz	
	Transmission Power	10mW/CE; 2mW/FCC	
	Modulation Type	FM	
	Bandwidth	18MHz	
	Power Supply	+12V_{DC}	
	Consumption Current	120mA (IR OFF) 270mA (IR ON)	
	Unobstructed Effective Range	100m	
	Night Vision Range	15m	
	Dimensions (W x D x H) (mm)	61 x 90 x 138	
	Weight	300g	
RECEIVER	Receiving Frequency	ISM 2,400MHz~2,483MHz	
	Intermediate Frequency	480MHz	
	Demodulation Type	FM	
	Antenna	50ohm SMA	
	Receiving Sensitivity	≤ -85dBm	
	Video Output Level	1Vp-p@75ohm, S/N>38dB	
	Audio Output Level	1Vp-p@600ohm	
	Power Supply	+8V_{DC}	+12V_{DC}
	Consumption Current	180mA	250mA
	Dimensions (W x D x H)(mm) (Excluding antenna)	68 x 78 x 16	78 x 92 x 23
	Weight	120g	184g
	Operating Temperature	-10°C~+50°C/+14°F~+122°F	
	Storage Temperature	-30°C~+85°C/-22°F~+185°F	
	Operating Humidity	85%RH	

* All the specifications are subject to minor change without prior notice.

TROUBLESHOOTING

When you experience the operation problems, please check and try the following yourself before claiming that it is the defective product or consulting the experienced technician.

Abnormal Phenomena		Possible Reasons/Solutions
No image	No sound	Check whether the camera/receiver is connected to power supply and powered on.
Snowflakes on image	Noisy	1. Check if the channel of receiver is the same as that of camera; 2. Check the distance & blocks.
Ghost image	Normal sound	1. Interfered with other devices; 2. Check the distance & blocks.
No color	Normal sound	Mismatching the TV system of PAL or NTSC.
Normal image	Noisy	Interfered with other devices nearby; Remove or turn off such devices.